

ABSTRACT OF THE DISCLOSURE

A manufacturing method of a thin-film magnetic head with an MR element or a manufacturing method of an HGA with the head includes a step of forming a plurality of MR elements on a substrate or wafer, a step of forming a plurality of pairs of connection pads, each pair of connection pads being electrically connected across each MR element, a step of forming a plurality of thin-film short-circuit patterns on a surface of the wafer, each short-circuit electrically short-circuiting between each pair of connection pads, and a step of thereafter breaking each short-circuit pattern by laser radiation during a predetermined manufacturing process of the magnetic head.